

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau(43) International Publication Date
21 October 2004 (21.10.2004)

PCT

(10) International Publication Number
WO 2004/089253 A1(51) International Patent Classification⁷: **A61F 2/24**West Lafayette, IN 47906 (US). FLAGLE, Jacob, A.
[US/US]; 2200 E. 7th Street, Bloomington, IN 47408 (US).

(21) International Application Number:

PCT/US2004/009971

(74) Agents: GANDY, Kenneth, A. et al.; Woodard, Emhardt,
Moriarty, McNett & Henry LLP, Bank One Center/Tower,
Suite 3700, 111 Monument Circle, Indianapolis, IN 46204
(US).

(22) International Filing Date: 1 April 2004 (01.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/459,475

1 April 2003 (01.04.2003) US

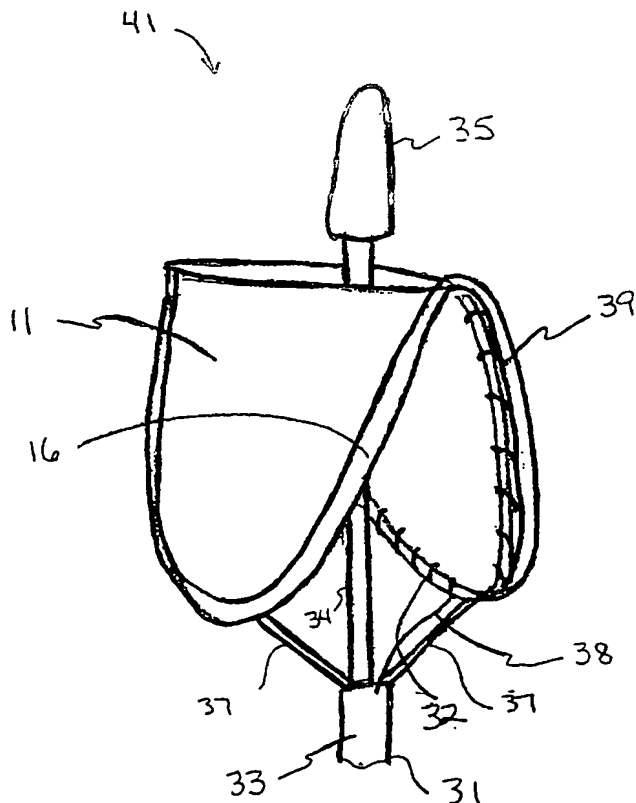
(71) Applicant (for all designated States except US): COOK
INCORPORATED; 925 South Curry Pike, P.O. Box 489,
Bloomington, IN 47402 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): CASE, Brian, C.
[US/US]; 841 Rosewood Drive, Bloomington, IN 47404
(US). AGNEW, Charles, W. [US/US]; 30 Steuben Court,(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: PERCUTANEOUSLY DEPLOYED VASCULAR VALVES

(57) Abstract: Described are percutaneous vascular valves
(11) free of attached support structures and deployment
systems (31) and methods for providing attachment of the
valves within a vascular vessel.



GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.